Volume Contents

NUMBER 1

Giovanni M. Sacco	1	The fact model: a semantic data model for complex databases
Prabuddha De, June S. Park and **Hasan Pirkul**	13	An integrated model of record segmentation and access path selection for databases
Timo Niemi	31	An approach and its specification to data reformatting in data conversion
M. G. Fugini and **G. Martella**	53	A Petri-net model of access control mechanisms
Bernd Teufel and **Stephanie Schmidt**	65	Full text retrieval based on syntactic similarities
Sakti Pramanik and **Farshad Fotouhi**	71	Optimizing the cost of relational queries using Partial-Relation schemes
Peretz Shoval, Ehud Gudes and **Moshe Goldstein**	81	GISD: a graphical interactive system for conceptual database design
Carla Schlatter Ellis	97	Concurrency in extendible hashing
Yeong-Shiou Hsiao and **Alan L. Tharp**	111	Adaptive hashing
Ross N. Williams	129	Dynamic-history predictive compression
	141	Reports and Theses
	I	News Section
	V	Software Survey Section

NUMBER 2

	iii	Softstrip® data strip containing the table of contents for this issue
Theo Härder	155	Handling hot spot data in DB-sharing systems
Ewa Orlowska	167	Representation of vague information
Timos K. Sellis	175	Intelligent caching and indexing techniques for relational database systems
Prashant Palvia	187	The effect of buffer size on pages accessed in random files

Peretz Shoval 193 ADISSA: architectural design of information systems based on structured analysis

D. Murthy and **Pradip K. Srimani** 211 Split sequence coalesced hashing

C. M. R. Leung and **G. M. Nijssen** 219 Relational database design using the NIAM conceptual schema

229 Reports and Theses

I News Section

III Software Survey Section
PROTERM—PROGRIS Thesaurus Software

NUMBER 3

iii Softstrip® data strip containing the table of contents for this issue

Leonardo Felician 239 Confusional search on large files or databases

S. Bergamaschi, F. Bonfatti, L. Cavazza, C. Sartori and **P. Tiberio** 245 Relational data base design for the intensional aspects of a knowledge base

Michael V. Mannino, Shamkant B. Navathe and **Wolfgang Effelsberg** 257 A rule-based approach for merging generalization hierarchies

Philip W. Dart and **Justin Zobel** 273 Conceptual schemas applied to deductive databases

Nikos A. Lorentzos and **Roger G. Johnson** 289 Extending relational algebra to manipulate temporal data

C. Batini and **G. Di Battista** 297 A methodology for conceptual documentation and maintenance

Short Note
Leonardo Felician 319 A measure of costs in balanced trees

321 Reports and Theses

I News Section

III Software Survey Section
STRONG COMPONENT HIERARCHICAL CLUSTERING
Pro–Cite
Professional Bibliographic System
Biblio–Link

NUMBER 4

iii Softstrip® data strip containing the table of contents for this issue

Evan E. Anderson 327 Forming the optimal union of multiple databases

Stefan Karl and **Peter C. Lockemann** 335 Design of engineering databases: a case for more varied semantic modelling concepts

Sakti P. Ghosh 359 SIAM: statistics information access method

Ilsoo Ahn and **Richard Snodgrass** 369 Partitioned storage for temporal databases

Frank Wm. Tompa and **José A. Blakeley** 393 Maintaining materialized views without accessing base data

G. Di Battista and **C. Batini** 407 Design of statistical databases: a methodology for the conceptual step

Guang-Sheen Liu and **Huei-Huang Chen** 423 Parallel merging of lists in database management system

429 Reports and Theses

I News Section

III Software Survey Section